

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/533,069  
Source: IFWP  
Date Processed by STIC: 8/21/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 08/21/2006

PATENT APPLICATION: US/10/533,069

TIME: 14:57:52

Input Set : E:\P1982R1.txt

Output Set: N:\CRF4\08212006\J533069.raw

3 <110> APPLICANT: AGGARWAL, SUDEEPTA  
 4 CLARK, HILARY  
 5 GURNEY, AUSTIN L.  
 6 SCHOENFELD, JILL  
 7 WILLIAMS, P. MICKEY  
 8 WOOD, WILLIAM I.  
 9 WU, THOMAS D.  
 11 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT OF IMMUNE  
 12 RELATED DISEASES  
 14 <130> FILE REFERENCE: P1982R1 US  
 16 <140> CURRENT APPLICATION NUMBER: US 10/533,069  
 17 <141> CURRENT FILING DATE: 2005-04-28  
 19 <150> PRIOR APPLICATION NUMBER: PCT/US03/34381  
 20 <151> PRIOR FILING DATE: 2003-10-28  
 22 <150> PRIOR APPLICATION NUMBER: US 60/422,472  
 23 <151> PRIOR FILING DATE: 2002-10-29  
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 37 accggactac atgtcggagg agaagctgca ggagaaagct cgaaaaatggc 150  
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 57 tggaggccat tcagctagag ctggaccctg aggaggacgc ccctgtgttg 650  
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 61 tggctccact taccagcgtt ggcagttcac actacctatg atgtcaactc 750  
 63 tctaccgcct ggctaatacag ctcctgacag acttgggtga tgacaactac 800  
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 67 ggccattcct ggaggcccca aatttgaacc tcttggtcga gacatcaacc 900  
 69 tacaggatga agactggaat gaattcaatg atattaacaa gattatcatc 950  
 71 cggcagccta tccggactga gtacaagatt gcttttcctt acttgtacaa 1000  
 73 caatcttcca caccatgtcc acctcacctg gtaccatact cccaatgttg 1050

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169 taatgaaaac atcgttggct ataataacaa gaagtgtggt ccccgagatg 3450
171 cccgcatgcg cctcatgaaa catgatgtta acttaggccg ggcggtattc 3500

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179 gaggagtcca cccacaagga cgggggtctgg aacctgcaga atgagggttac 3700
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323 &lt;210&gt; SEQ ID NO: 2

324 &lt;211&gt; LENGTH: 2000

325 &lt;212&gt; TYPE: PRT

326 &lt;213&gt; ORGANISM: Homo sapien

328 &lt;400&gt; SEQUENCE: 2

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333 20 25 30
335 Gln Glu Lys Ala Arg Lys Trp Gln Gln Leu Gln Ala Lys Arg Tyr
336 35 40 45
338 Ala Glu Lys Arg Lys Phe Gly Phe Val Asp Ala Gln Lys Glu Asp
339 50 55 60
341 Met Pro Pro Glu His Val Arg Glu Ile Ile Arg Asp His Gly Asp
342 65 70 75
344 Met Thr Asn Arg Lys Phe Arg His Asp Lys Arg Val Tyr Leu Gly
345 80 85 90
347 Ala Leu Lys Tyr Met Pro His Ala Val Leu Lys Leu Leu Glu Asn
348 95 100 105
350 Met Pro Met Pro Trp Glu Gln Ile Arg Asp Val Pro Val Leu Tyr
351 110 115 120
353 His Ile Thr Gly Ala Ile Ser Phe Val Asn Glu Ile Pro Trp Val
354 125 130 135

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360					155					160					165
362	Phe	Pro	Pro	Phe	Asp	Asp	Glu	Glu	Pro	Pro	Leu	Asp	Tyr	Ala	Asp
363					170					175					180
365	Asn	Ile	Leu	Asn	Val	Glu	Pro	Leu	Glu	Ala	Ile	Gln	Leu	Glu	Leu
366					185					190					195
368	Asp	Pro	Glu	Glu	Asp	Ala	Pro	Val	Leu	Asp	Trp	Phe	Tyr	Asp	His
369					200					205					210
371	Gln	Pro	Leu	Arg	Asp	Ser	Arg	Lys	Tyr	Val	Asn	Gly	Ser	Thr	Tyr
372					215					220					225
374	Gln	Arg	Trp	Gln	Phe	Thr	Leu	Pro	Met	Met	Ser	Thr	Leu	Tyr	Arg
375					230					235					240
377	Leu	Ala	Asn	Gln	Leu	Leu	Thr	Asp	Leu	Val	Asp	Asp	Asn	Tyr	Phe
378					245					250					255
380	Tyr	Leu	Phe	Asp	Leu	Lys	Ala	Phe	Phe	Thr	Ser	Lys	Ala	Leu	Asn
381					260					265					270
383	Met	Ala	Ile	Pro	Gly	Gly	Pro	Lys	Phe	Glu	Pro	Leu	Val	Arg	Asp
384					275					280					285
386	Ile	Asn	Leu	Gln	Asp	Glu	Asp	Trp	Asn	Glu	Phe	Asn	Asp	Ile	Asn
387					290					295					300
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390					305					310					315
392	Phe	Pro	Tyr	Leu	Tyr	Asn	Asn	Leu	Pro	His	His	Val	His	Leu	Thr
393					320					325					330
395	Trp	Tyr	His	Thr	Pro	Asn	Val	Val	Phe	Ile	Lys	Thr	Glu	Asp	Pro
396					335					340					345
398	Asp	Leu	Pro	Ala	Phe	Tyr	Phe	Asp	Pro	Leu	Ile	Asn	Pro	Ile	Ser
399					350					355					360
401	His	Arg	His	Ser	Val	Lys	Ser	Gln	Glu	Pro	Leu	Pro	Asp	Asp	Asp
402					365					370					375
404	Glu	Glu	Phe	Glu	Leu	Pro	Glu	Phe	Val	Glu	Pro	Phe	Leu	Lys	Asp
405					380					385					390
407	Thr	Pro	Leu	Tyr	Thr	Asp	Asn	Thr	Ala	Asn	Gly	Ile	Ala	Leu	Leu
408					395					400					405
410	Trp	Ala	Pro	Arg	Pro	Phe	Asn	Leu	Arg	Ser	Gly	Arg	Thr	Arg	Arg
411					410					415					420
413	Ala	Leu	Asp	Ile	Pro	Leu	Val	Lys	Asn	Trp	Tyr	Arg	Glu	His	Cys
414					425					430					435
416	Pro	Ala	Gly	Gln	Pro	Val	Lys	Val	Arg	Val	Ser	Tyr	Gln	Lys	Leu
417					440					445					450
419	Leu	Lys	Tyr	Tyr	Val	Leu	Asn	Ala	Leu	Lys	His	Arg	Pro	Pro	Lys
420					455					460					465
422	Ala	Gln	Lys	Lys	Arg	Tyr	Leu	Phe	Arg	Ser	Phe	Lys	Ala	Thr	Lys
423					470					475					480
425	Phe	Phe	Gln	Ser	Thr	Lys	Leu	Asp	Trp	Val	Glu	Gly	Trp	Leu	Gln
426					485					490					495
428	Val	Cys	Arg	Gln	Gly	Tyr	Asn	Met	Leu	Asn	Leu	Leu	Ile	His	Arg

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:138; N Pos. 26,68,80,107,1762  
Seq#:198; N Pos. 95,99,108  
Seq#:350; Xaa Pos. 74  
Seq#:389; N Pos. 4613,4614  
Seq#:409; N Pos. 1683  
Seq#:570; N Pos. 61,2277  
Seq#:686; N Pos. 603  
Seq#:687; Xaa Pos. 131  
Seq#:738; N Pos. 3395  
Seq#:777; Xaa Pos. 65  
Seq#:810; N Pos. 3300  
Seq#:917; N Pos. 2733,2804,2876  
Seq#:918; Xaa Pos. 194  
Seq#:966; N Pos. 801,802,803,804,805,806,807,808,809,810,811,812,813,814  
Seq#:966; N Pos. 815,816,817,818,819,820,821,822,823,824,825,826,827,828  
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Seq#:997; N Pos. 698,717,731  
Seq#:998; Xaa Pos. 10  
Seq#:1047; N Pos. 2120,2121,2122,2123,2124,2125,2126,2127,2128,2129,2130  
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Seq#:1566; N Pos. 7,19,22,27,33,38,47  
Seq#:1567; Xaa Pos. 2,7,9,11,13,16  
Seq#:1588; N Pos. 159,160,161,162,163,164,165,166,167,168,169,170,171,172  
Seq#:1588; N Pos. 173,174,175,176,177,178,179,180,181  
Seq#:1589; Xaa Pos. 53,54,55,56,57,58,59,60  
Seq#:1599; N Pos. 316,317,318,319,320,321,322,323,324,325,326,327,328,329  
Seq#:1599; N Pos. 330,331,332,333,334,335,336,337,338,339,340

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Seq#:1601; N Pos. 9210,9211,9212,9213,9214,9215,9216,9217,9218,9219,9220  
Seq#:1601; N Pos. 9221,9222,9223,9224,9225,9226,9227,9228  
Seq#:1620; N Pos. 65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83  
Seq#:1620; N Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101  
Seq#:1620; N Pos. 102,103,6474,6475,6476,6477,6478,6479,6480,6481,6482,6483  
Seq#:1620; N Pos. 6484,6485,6486,6487,6488,6489,6490,6491,6492,6493,6494  
Seq#:1620; N Pos. 6495,6496,6497,6498,6499,6500,6501,6502,6503,6504,6627  
Seq#:1640; N Pos. 567  
Seq#:1673; N Pos. 367,368,369,370,371,372,373,374,375,376,377,378,379,380  
Seq#:1673; N Pos. 381,382,383,384,385,386,387,388,389,390,391,392,393,394  
Seq#:1673; N Pos. 395,396,397,398,399,400,401,402,403,404,405,406,407,408  
Seq#:1673; N Pos. 409,410,411,412,413,414,415,416,417,418,419,420,421,422  
Seq#:1673; N Pos. 423,424,425,426,427,428,429,430,431,432,433,434,435,436  
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Seq#:1673; N Pos. 574,575,576,577,578,579,580,581,582,583,584,585,586,587  
Seq#:1673; N Pos. 588,589,590,591,592,593,594,595,596,597,598,599,600,601  
Seq#:1699; N Pos. 59  
Seq#:1716; N Pos. 400,401,402,403,404,405,406,407,408,409,410,411,412,413  
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Seq#:1733; N Pos. 805,806,807,808,809,810,811,812,813,814,815,816,817,818  
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Seq#:1733; N Pos. 833,834,835,836,837,838,839,840,841,842,843,844,845,846  
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Seq#:1733; N Pos. 875,876,877,878,879,880,881  
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Seq#:1734; Xaa Pos. 75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92  
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Seq#:1735; N Pos. 490,491,492,493,494,495,496,497,498,499,500,501,502,503  
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Seq#:1735; N Pos. 518,519,520,521,522,523  
Seq#:1737; N Pos. 2683,2684,2685,2686,2687,2688,2689,2690,2691,2692,2693  
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Seq#:1772; N Pos. 248,1004,1014  
Seq#:1773; Xaa Pos. 32  
Seq#:1790; N Pos. 510  
Seq#:1801; N Pos. 3712,3713,3714,3715,3716,3717,3718,3719,3720,3721,3722  
Seq#:1801; N Pos. 3723,3724,3725,3726,3727,3728,3729,3730,3731,3732,3733  
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Seq#:1801; N Pos. 3745,3746,3747,4297,4298,4299,4300,4301,4302,4303,4304  
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Seq#:1801; N Pos. 4316,4317,4318,4319,4320,4321,4322,4323,4324,4325,4326  
Seq#:1803; N Pos. 2500



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Seq#:1806; N Pos. 113,114,115,116,117,118,119  
Seq#:1807; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40  
Seq#:1837; N Pos. 891  
Seq#:1844; N Pos. 3065,3066,3067,3068,3069,3070,3071,3072,3073,3074,3075  
Seq#:1844; N Pos. 3076,3077,3078,3079,3080,3081,3082,3083,3084,3085,3086  
Seq#:1844; N Pos. 3087,3088,3089,3090,3091,3092,3093,3094,3095,3096,3097  
Seq#:1844; N Pos. 3098,3099,3100,3101,3102,3103,3104,3105  
Seq#:1866; N Pos. 89,377,378,379,380,381,382,383,384,385,386,387,388,389  
Seq#:1866; N Pos. 390,391,392,393,394,395,396,397,398,399,400,401,402,403  
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Seq#:1866; N Pos. 1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186  
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Seq#:1868; N Pos. 3447,3448,3449  
Seq#:1878; N Pos. 331  
Seq#:1882; N Pos. 348,349,350,351,352,353,354,355,356,357,358,359,360,361  
Seq#:1882; N Pos. 362,363,364,365,366,367,368,369,370,371,372,373,374,375  
Seq#:1882; N Pos. 376,377,378,379,380,381,382,383,384,385,386,387,388,389

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Seq#:1886; N Pos. 3058,3059,3060,3061,3062,3063,3064,3065,3066,3067,3068  
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Seq#:1886; N Pos. 3091,3092,3093,3094,3095,3096,3097,3098,3105,3107,3109  
Seq#:1886; N Pos. 3111,3113  
Seq#:1888; N Pos. 718  
Seq#:1889; Xaa Pos. 3,178  
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Seq#:1902; N Pos. 2232,2233,2234,2235,2236,2237,2238,2239,2240,2241,2242  
Seq#:1902; N Pos. 2243,2244,2245,2246,2247,2248,2249,2250,2251,2252,2253  
Seq#:1902; N Pos. 2254,2255,2256,2257  
Seq#:1904; N Pos. 285,290,296

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Seq#:1909; N Pos. 1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087  
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Seq#:1909; N Pos. 1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109  
Seq#:1909; N Pos. 1110,1111,1112,1113,1114  
Seq#:1914; N Pos. 21,925,926,927,928,929,930,931,932,933,934,935,936,937  
Seq#:1914; N Pos. 938,939,940,941,942,943,944,945,946  
Seq#:1915; Xaa Pos. 7  
Seq#:1916; N Pos. 607,608,609,610,611,612,613,614,615,616,617,618,619,620  
Seq#:1916; N Pos. 621,622,623,624,625,626,627,628,629,630,631,632,633,634  
Seq#:1916; N Pos. 635,636,637,638,639,640,641,642,643,644,645,646,647,648  
Seq#:1916; N Pos. 649,650,651,652,653,654,655,656,657,658,659,660,661,662  
Seq#:1916; N Pos. 663,664,665,666,667,668,669,670,671,672,673,674,2124,2125  
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Seq#:1927; N Pos. 456,457,458,459,460,461,462,463,464,465,466,467,468,469  
Seq#:1927; N Pos. 470,471,472,473,474,475,476,477,478  
Seq#:2031; N Pos. 1530  
Seq#:2142; Xaa Pos. 17  
Seq#:2177; N Pos. 990,1015,1039,1063,1065,1123,1559,1564,1565,1587,1590  
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Seq#:2192; N Pos. 1243,1270  
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Seq#:2201; Xaa Pos. 77  
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Seq#:2382; N Pos. 332,333,334,335,336,337  
Seq#:2383; Xaa Pos. 6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25  
Seq#:2383; Xaa Pos. 26,27,28,49,50,51,52,53,54,55,56  
Seq#:2392; N Pos. 1823,1824,1825,1826,1827,1828,1829,1830,1831,1832,1833  
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Seq#:2392; N Pos. 1845,1846,1847,1848,1849,1850,1851,1852,1853,1854  
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Seq#:2407; N Pos. 1420  
Seq#:2419; N Pos. 732  
Seq#:2421; N Pos. 413,414,415,416,417,418,419,420,421,422,423,424,425,426  
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Seq#:2425; N Pos. 58,116,118,124,125,129,131,136,139,141,144,150,165

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Seq#:2426; Xaa Pos. 39,42,43,44,45,47,48,50,55  
Seq#:2428; N Pos. 707,735,743,748

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L:14421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:50  
L:14423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:100  
L:14489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:1750  
L:20837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198 after pos.:50  
L:20839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198 after pos.:100  
L:36146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:350 after pos.:60  
L:40284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389 after pos.:4600  
L:42320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409 after pos.:1650  
L:59029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:570 after pos.:50  
L:59117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:570 after pos.:2250  
L:69534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:686 after pos.:600  
L:69585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:687 after pos.:120  
L:75672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:738 after pos.:3350  
L:79545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:777 after pos.:60  
L:83265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:810 after pos.:3250  
L:93873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:917 after pos.:2700  
L:93877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:917 after pos.:2800  
L:93879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:917 after pos.:2950  
L:93952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:918 after pos.:180  
L:100118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:966 after pos.:800  
L:103048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:989 after pos.:6950  
L:104501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:997 after pos.:650  
L:104503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:997 after pos.:700  
L:104518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:998 after pos.:0  
L:112851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1047 after pos.:2100  
L:113318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1052 after pos.:250  
L:113550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1053 after pos.:75  
L:113553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1053 after pos.:90  
L:115386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1073 after pos.:3600  
L:130807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1237 after pos.:850  
L:134930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:3900  
L:140379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1353 after pos.:1600  
L:140381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1353 after pos.:1650  
L:140558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1355 after pos.:300  
L:140682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1355 after pos.:3400  
L:140684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1355 after pos.:3450  
L:140692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1355 after pos.:3650  
L:140700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1355 after pos.:3850  
L:140738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1356 after pos.:15  
L:153913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1506 after pos.:2550  
L:158209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1566 after pos.:0  
L:158281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1567 after pos.:0  
L:158284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1567 after pos.:15  
L:160980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:150  
L:161255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1589 after pos.:45  
L:161872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1599 after pos.:300  
L:163454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1601 after pos.:9200

## VERIFICATION SUMMARY

DATE: 08/21/2006

PATENT APPLICATION: US/10/533,069

TIME: 14:57:53

Input Set : E:\P1982R1.txt

Output Set: N:\CRF4\08212006\J533069.raw

L:165426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1620 after pos.:50  
L:165428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1620 after pos.:100  
L:165682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1620 after pos.:6450  
L:165684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1620 after pos.:6500  
L:165688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1620 after pos.:6600  
L:167080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1640 after pos.:550  
L:169513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1673 after pos.:350  
L:169515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1673 after pos.:400  
L:169519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1673 after pos.:500  
L:169521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1673 after pos.:550  
L:169523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1673 after pos.:600  
L:171974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1699 after pos.:50  
L:173601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1716 after pos.:350  
L:173603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1716 after pos.:400  
L:175590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1733 after pos.:750  
L:175592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1733 after pos.:800  
L:175594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1733 after pos.:850  
L:175819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1734 after pos.:45  
L:175822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1734 after pos.:60  
L:175825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1734 after pos.:75  
L:175828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1734 after pos.:90  
L:175869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1735 after pos.:450  
L:175871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1735 after pos.:500  
L:176037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1737 after pos.:2650  
L:176039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1737 after pos.:2700  
L:178328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1772 after pos.:200  
L:178360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1772 after pos.:1000  
L:178379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1773 after pos.:30  
L:179603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1790 after pos.:500  
L:180286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1801 after pos.:3700  
L:180308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1801 after pos.:4250  
L:180310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1801 after pos.:4300  
L:180639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1803 after pos.:2450  
L:180765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1806 after pos.:50  
L:180767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1806 after pos.:100  
L:180866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1807 after pos.:15  
L:180869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1807 after pos.:30  
L:183201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1837 after pos.:850  
L:183762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1844 after pos.:3050  
L:183764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1844 after pos.:3100  
L:185822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:50  
L:185834 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:350  
L:185836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:400  
L:185838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:450  
L:185840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:500  
L:185864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:1100  
L:185866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:1150  
L:185868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:1200  
L:185870 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:1250

## VERIFICATION SUMMARY

DATE: 08/21/2006

PATENT APPLICATION: US/10/533,069

TIME: 14:57:53

Input Set : E:\P1982R1.txt

Output Set: N:\CRF4\08212006\J533069.raw

L:185872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1866 after pos.:1300  
L:186191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1867 after pos.:30  
L:186194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1867 after pos.:45  
L:186197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1867 after pos.:60  
L:186200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1867 after pos.:75  
L:186203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1867 after pos.:90  
L:186314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1868 after pos.:1800  
L:186360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1868 after pos.:2950  
L:186378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1868 after pos.:3400  
L:186780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1878 after pos.:300  
L:186921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1882 after pos.:300  
L:186923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1882 after pos.:350  
L:186925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1882 after pos.:400  
L:186927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1882 after pos.:450  
L:187178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1883 after pos.:15  
L:187181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1883 after pos.:30  
L:187184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1883 after pos.:45  
L:187187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1883 after pos.:60  
L:187517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1886 after pos.:3050  
L:187519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1886 after pos.:3100  
L:187778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1888 after pos.:700  
L:187796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1889 after pos.:0  
L:187829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1889 after pos.:165  
L:188500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:4150  
L:188502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:4200  
L:188504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:4250  
L:188506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:4300  
L:188796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1902 after pos.:1050  
L:188800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1902 after pos.:1150  
L:188836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1902 after pos.:2050  
L:188838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1902 after pos.:2100  
L:188840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1902 after pos.:2150  
L:188842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1902 after pos.:2200  
L:188844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1902 after pos.:2250  
L:188910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1904 after pos.:250  
L:189477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1909 after pos.:1050  
L:189479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1909 after pos.:1100  
L:189822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1914 after pos.:0  
L:189858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1914 after pos.:900  
L:189891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1915 after pos.:0  
L:189937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1916 after pos.:600  
L:189939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1916 after pos.:650  
L:189997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1916 after pos.:2100  
L:189999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1916 after pos.:2150  
L:190717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1927 after pos.:450  
L:200918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2031 after pos.:1500  
L:211779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2142 after pos.:15  
L:215431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:950  
L:215433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1000

## VERIFICATION SUMMARY

DATE: 08/21/2006

PATENT APPLICATION: US/10/533,069

TIME: 14:57:53

Input Set : E:\P1982R1.txt

Output Set: N:\CRF4\08212006\J533069.raw

L:215435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1050  
L:215437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1100  
L:215455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1550  
L:215457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1600  
L:215459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1650  
L:215461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1700  
L:215463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1750  
L:215469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1900  
L:215471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:1950  
L:215479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:2150  
L:215481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:2200  
L:215487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:2350  
L:215491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:2450  
L:215495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:2550  
L:215515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:3050  
L:215517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2177 after pos.:3100  
L:217259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2192 after pos.:1200  
L:217261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2192 after pos.:1250  
L:217335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2193 after pos.:180  
L:217338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2193 after pos.:195  
L:217702 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2201 after pos.:75  
L:235431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2382 after pos.:150  
L:235433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2382 after pos.:200  
L:235435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2382 after pos.:250  
L:235437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2382 after pos.:300  
L:235620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:0  
L:235623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:15  
L:235629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:45  
L:236382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2392 after pos.:1800  
L:236384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2392 after pos.:1850  
L:237553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2406 after pos.:1300  
L:237624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2407 after pos.:1400  
L:238056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2419 after pos.:700  
L:238102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2421 after pos.:400  
L:238260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2425 after pos.:50  
L:238262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2425 after pos.:100  
L:238264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2425 after pos.:150  
L:238345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2426 after pos.:30  
L:238348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2426 after pos.:45  
L:238448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2428 after pos.:700